SyQuest®

SQ270/SQ105

External

Removable

Cartridge

Disk Drive

(SCSI Interface

System)

Installation Guide

SQ270 & SQ105 External Removable Cartridge Disk Drive Installation Guide (SCSI Interface System)

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Chapter 1 • Introduction

Overview

SyQuest SQ270 and SQ105 External 3.5 inch drives are high performance, external, removable cartridge disk drive subsystems. Up to seven drives may be connected by a SCSI (Small Computer Systems Interface) "daisy chain." Data transfer rates of up to 2.3 Megabytes/second are supported by the SQ270 External and up to 2.1 Megabytes/second by the SQ105 External. SQ270 External drives read and write either SQ327 (SyQuest 270MB cartridges) or SQ310 (SyQuest 105MB cartridges).

The SQ270 External and SQ105 External enclosure is both durable and functional. The drives may be oriented either horizontally or vertically. On the front are two LEDs (Light Emitting Diodes) that continually display operational status. On the back are dual 50 pin SCSI connectors, the power ON/OFF switch, a recessed SCSI ID switch, and AC main input and output receptacles. The cartridges may be locked via software to prevent accidental removal.

Package Contents

The following items are included in the SQ270 External or SQ105 External Removable Cartridge Disk Drive subsystem:

1. SyQuest SQ3270S or SyQuest SQ3105S Removable Cartridge Disk Drive (270MB or 105MB drive) mounted in an enclosure.

2. A SyQuest Cartridge (270MB SQ327 with SQ270 External and 105MB SQ310 with SQ105 External).

3. A 50 pin passive terminator.

4. AC power cord.

5. SQ270 and SQ105 External Removable Cartridge Disk Drive Installation Guide (this document).

6. SyQuest SCSI Software Installation Guide.

7. SyQuest Utility Diskette Software (two 3.5 inch diskettes).

8. Mounting feet for vertical placement.

9. Product registration card.

In addition, if this package is part of a Value Pack, the following are included:

1. A SyQuest 16-Bit SCSI Host Bus Adapter (HBA).

2. A SyQuest 16-Bit SCSI Host Bus Adapter Kit Installation Guide.

3. An external SCSI cable.

Should any of these items be missing or damaged, return all items and proof of purchase to your authorized SyQuest reseller or distributor. Your reseller will provide directions for replacing your product or obtaining the missing items.

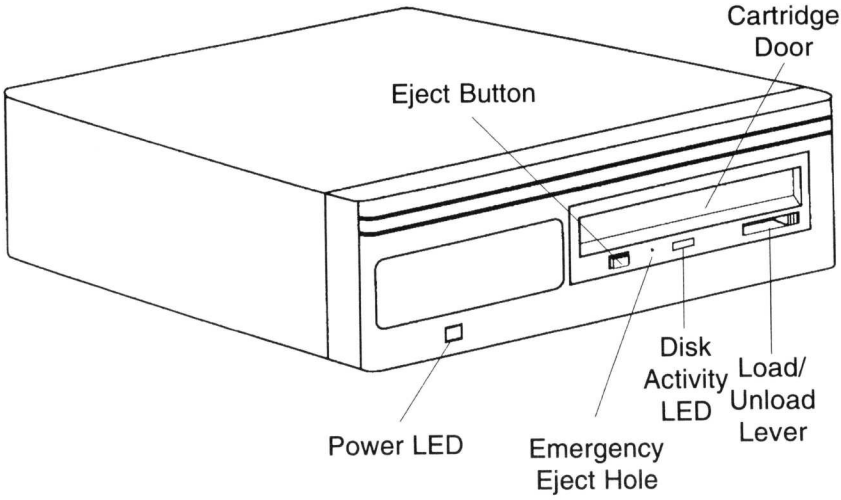

Figure 1-1. External Removable Cartridge Disk Drive Front View

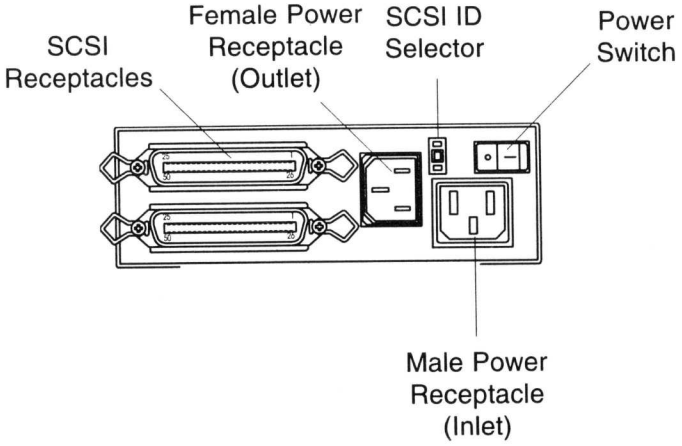

Figure 1-2. External Removable Cartridge Disk Drive Back View

System Requirements

A SQ270 (or SQ105) External Removable Cartridge Disk Drive operates with any IBM Compatible PC containing a SyQuest SCSI Host Bus Adapter (HBA) or SyQuest recommended HBA. The unit may work with other Host Bus Adapters. (See the readme file in your software diskette for information about other manufacturer's HBAs). The operating systems supported by SQ270 (or SQ105) External drives are MS-DOS 3.1 or higher, PC-DOS 3.1 or higher, DR-DOS 6.0 or higher, OS/2 2.1, and Windows NT.

For Macintosh, UNIX, and other non IBM PC compatible platforms that support the attachment of SCSI disk drives, please call Technical Support to obtain installation and software support information.

Product Registration Card

To obtain technical updates, information about our latest product developments, and special offers made to our registered customers, please fill out and return the enclosed Product Registration Card.

Technical Assistance

SyQuest provides free technical support for this and all SyQuest products through the following Phone Numbers:

Within US..... 1 (800) 249-2440
Outside US ..... (510) 226-4000
FAX..... (510) 226-4102
BBS ..... (510) 656-0473

Europe 49-751-560-500
FAX..... 49-751-553-075
BBS 32-11-683-525

ASIA 66-2-583-5490
FAX..... 66-2-583-5500

The Bulletin Boards are available seven days a week, twenty four hours per day. Data rates supported are 300 Bits/Second to 14.4K Bits/Second. Use 8 data bits, 1 stop bit and no parity.

Notice to Users

SyQuest makes no representations or warranties with respect to the use of, or the results of the use of the software, hardware or contents hereof, and specifically disclaims any implied warranties of merchantability or fitness for any purpose.

SyQuest reserves the right to revise the software, hardware and this document and to make changes from time to time without obligations to notify any person of such revisions and changes.

SyQuest is a registered trademark in the United States and certain other countries. SQ270 External and SQ105 External are trademarks of SyQuest Technology, Inc. IBM, PC-DOS, MS-DOS, Windows, Windows NT, OS/2, DR-DOS, Macintosh, and UNIX are registered trademarks of other companies.

While every effort has been made to ensure that the information provided herein is correct, please notify SyQuest in the event of any errors. Please write your comments, your name, address and telephone number (include the name and the part number of the document) and mail to:

SyQuest Technology
47071 Bayside Parkway
Fremont, California 94538
ATTN: Technical Support

FCC Radio Frequency Interference Warning

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient the receiving antenna.
2. Reorient the computer with respect to the receiver.
3. Move the computer further away from the receiver.
4. Plug the computer or receiver into a different outlet so computer and receiver are on different branch power circuits.
5. Ensure that card mounting screws, attachment connector screws, and ground wires are tightly secured.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user might find the following booklet helpful, prepared by the Federal Communications Commission: *How to Identify and Resolve Radio TV Interference Problems*. It is available from the U.S. Government Printing Office, Washington, DC 20492, Stock No. 004-000-00345-4 (FCC Part No. 15.838b).

You are also warned that any changes to this certified device will void your legal right to operate it.

This device has been tested and provided with cabling that meets FCC Class B requirements.

IN CANADA:

"This digital apparatus does not exceed the Class B limits for Radio noise emissions from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications."

"Le présent appareil numérique n' émet pas de bruts radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Réglement sur le brouillage radioélectrique édicté ministè des Communications du Canada."

Anhang 2 zur Anlage 1 zur AmtsblVfg 243/1991

Bescheinigund des
Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

MODEL SQ105 AND SQ270

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der BMPT-AmtsblVfg 243/1991 funkentstört ist. Der vorschriftsmäßsender) kann allerdings gewissen Einschänkungen unterliegen. Beachtem Sie deshalb die HInweise in der Bedienungsanleitung.

Dem Zentralamt für Zullassungen im Femmeldewesen wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf die Einhaltung der Bestimmungen eingeräumt.

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Chapter 2 • Hardware Installation

Hardware installation consists of:

1. Removing the drive, cartridge, terminator and AC power jumper cord from the shipping carton. If a Value Pack was purchased, you will also have a SyQuest SCSI HBA, SCSI cable and Host Bus Adapter manual.

2. Installing the SyQuest Host Bus Adapter (if a Value Pack was purchased).

3. Setting the SCSI ID.

4. Connecting the SCSI cable between the SQ270 (or SQ105) External enclosure.

5. Installing a terminator or connecting a SCSI cable to another SCSI device.

6. Attaching the power cord.

Installing a SyQuest HBA

NOTE:

> Your SyQuest HBA is shipped with BIOS disabled. You will need to enable BIOS if you: (1) Boot from the SQ270 or SQ105 External or (2) Require that BIOS assign drive letters before DOS. (See Appendix C of the SCSI Software Installation Guide for additional information about drive letter assignments.) To obtain a map of available BIOS addresses: (1) Insert SCSI Utility Diskette 1 in the **A:** (or **B:**) diskette drive, (2) Type **A:** (or **B:**) **<Enter> key** and (3) Type **SQPREP /B**.

Turn off your computer and all attached devices such as printers and monitors. Disconnect the AC power cable from your computer. Remove your computer's cover. Refer to your computer's manual for instructions on how to proceed.

Refer to the detailed instructions contained in your SyQuest HBA for installing the HBA. After installing the HBA, replace the cover to your computer and reattach all devices.

SCSI ID Address Selection

You can connect between one to seven drives or devices to a SCSI "daisy chain". The first drive or device is attached directly to the Host Bus Adapter. The second drive/device is attached to the first drive/device. The next drive/device is attached to the previous drive/device. The last drive must have a terminator block installed.

Each device on a SCSI "daisy chain" must have a unique SCSI ID. Any drive that will be used as a boot device must use SCSI ID = 0. The SQ270 (or SQ105) External is shipped with a default setting of SCSI ID = 0. The SCSI ID switch is located in the top right hand area in the back of the SQ270 (or SQ105) External enclosure. (See Figure 1-2). The switch mechanism is recessed to prevent accidental changing of the ID when powering on/off the unit. To change the ID to another number, take a blunt instrument, such as a paper clip or small screw driver and depress the top button above the SCSI ID number to advance the ID number and the depress the bottom button to decrement the ID number.

NOTE:

Some SCSI host bus adapters require that the first drive use SCSI ID=0 and all other drives use consecutive SCSI ID numbers.

SCSI Cable Connections

With the purchase of a Value Pack, you will find an external SCSI cable matched to your SyQuest Host Bus Adapter.

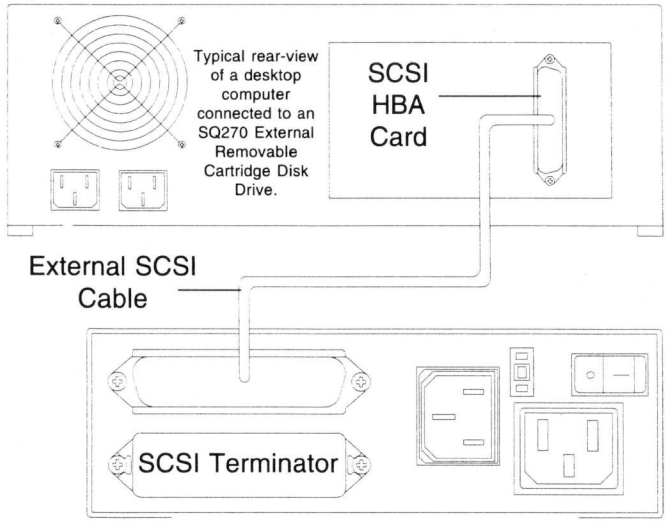
Typical rear-view of a desktop computer connected to an SQ270 External Removable Cartridge Disk Drive.
SCSI HBA Card
External SCSI Cable
SCSI Terminator

Figure 2-1. Rear of SQ270 External, Computer and Terminator

To connect the external SCSI cable do the following:

1. Power **off** both your computer and SQ270 (or SQ105) External and verify that the AC power cords are not connected to your computer and your SQ270 (or SQ105) External.
2. Locate the external SCSI Host Bus Adapter connector on the back of your computer.
3. Connect the fifty pin connector of the SCSI cable to your SQ270 (or SQ105) External.

WARNING: ***25 pin SCSI connectors have the same external connector appearance as a 25 pin parallel port used for parallel printers. Verify you are connecting the SQ270 (or SQ105) External to a SCSI HBA; NOT to the printer port. Also, make sure you have not accidentally connected your printer to the SCSI HBA.***

4. Connect the other end of the SCSI cable to your computer's SCSI HBA.

Termination

If the SQ270 (or SQ105) External is the last device in the SCSI daisy chain (or the only device attached to the SCSI HBA), attach the terminator to the unused 50 pin connector on the SQ270 (or SQ105) External.

If the SQ270 (or SQ105) External is an intermediate device in the SCSI daisy chain, insert the SQ270 (or SQ105) External in the middle of the "daisy chain."

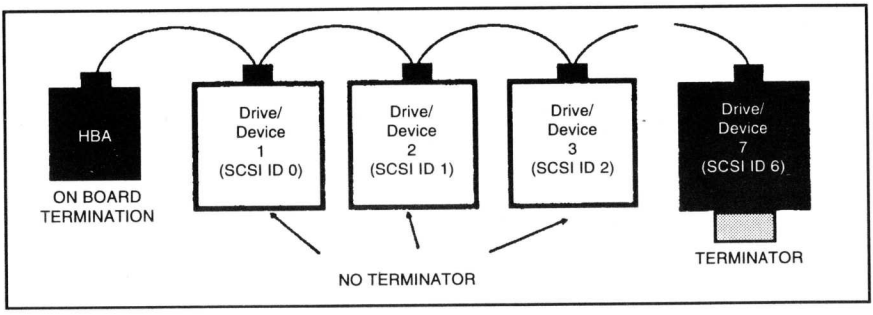

Figure 2-2. SCSI Daisy Chain

Connecting the Power Cord

The SQ270 (or SQ105) External has a universal power supply that automatically compensates for the differences between power systems in different countries. It ships with an AC power jumper cord that works with any PC. There are two ways of connecting the power cord to your SQ270 (or SQ105) External.

1. Most desktop and tower PCs come with power supplies including an AC outlet connector (female IEC connector). Connect one end of the AC power jumper cord to the SQ270 (or SQ105) External power inlet connector (male IEC connector) and the other end to the PC's power outlet connector (female IEC connector).

2. If you have a PC with only a single AC power supply connector, you will need to use the power cord that shipped with your PC and connect it to the AC power inlet connector (male IEC connector) of your SQ270 (or SQ105) External. Attach one end of the SQ270 (or SQ105) External AC power jumper cord to the unused SQ270 (or SQ105) External AC outlet connector (female IEC connector) and the other end of the AC power jumper cord to your PC's power inlet connector (male IEC connector).

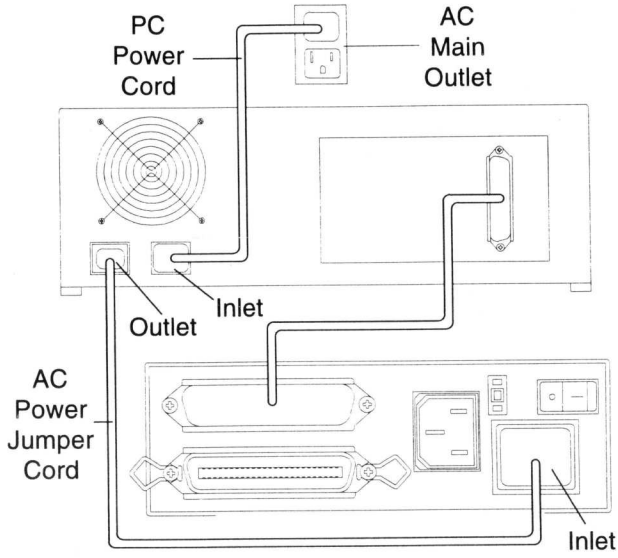

Figure 2-3. Power Cord Connection for PC with Dual AC Inlet/Outlet Connectors

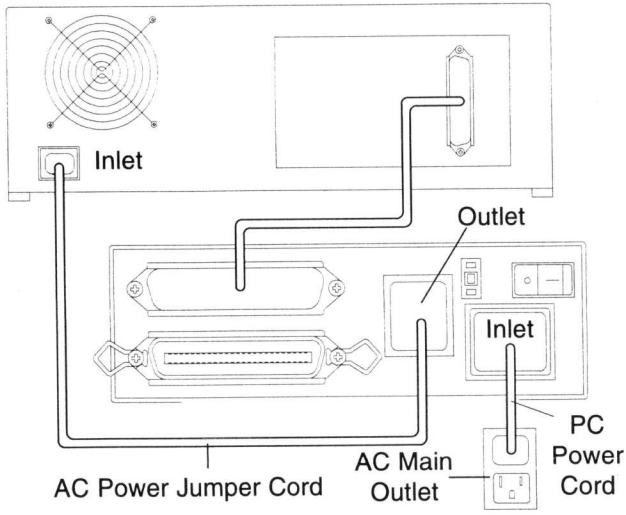

Figure 2-4. Power Cord Connection for PC with Single AC Inlet Connector

LED Indicators

The SQ270 (or SQ105) External has two LEDs (Light Emitting Diodes - see Figure 1-1). The LED on the drive indicates drive activity. The LED on the enclosure indicates power status.

The POWER LED indicator illuminates whenever the Power Switch (located at the top rear of the unit) is turned on.

The ACTIVITY LED is: (1) green whenever the drive is ready, but not being accessed, (2) amber whenever the drive is being accessed (may appear as flashing amber) and (3) flashing amber whenever the drive is powered on but not ready (drive spin up and spin down).

Chapter 3 • SyQuest Cartridges

SyQuest Cartridges

SyQuest recommends that you always use authentic SyQuest Cartridges with your SQ270 (or SQ105) External drive. If you have any questions about the authenticity of your cartridge, call SyQuest Technical Support. SyQuest cartridges have the SyQuest trademark molded into the top plastic cover.

Cartridge Handling Precaution

Follow these guidelines when handling or operating the data cartridge.

When the cartridge is not in use, keep it in its protective case to protect it from dust and excessive shock damage.

- Do not drop the cartridge. This may damage the cartridge and cause loss of data.
- Do not use a bulk tape eraser to erase the cartridge.
- Do not set the cartridge near magnetic fields. This could result in loss of the cartridge's recorded data.
- Do not apply labels that will interfere with the cartridge door or installation/removal operation (one label only in the designated label cavity).
- Do not expose the cartridge to temperatures outside of its operating range (-40° to 60° C).
- Allow the cartridge to adjust to room temperature within its protective case before inserting it in the disk drive. This precaution includes situations such as moving a cartridge from a cold car to a warm office or warm car to an air-conditioned office.
- Do not open the cartridge door. This may contaminate the disk surface resulting in severe damage to the cartridge and drive.
- Do not leave the cartridge partially inserted in the drive, or in the drive when moving the computer.
- Do not use cleaners, lubricants, or label the cartridge with graphite pencils. Graphite dust may contaminate the disk surface.

Inserting and Removing the Data Cartridge

Inserting the Cartridge

1. The arrow on the cartridge shows the proper direction for cartridge insertion.
2. Insert the cartridge through the drive door as shown in Fig. 3-1. The arrow should be facing with the cartridge pointing in the direction of the drive opening. The cartridge can be inserted easily only one way. Do not force the cartridge into the drive.
3. Push the cartridge in all the way until the Load/Unload Lever releases and the cartridge is flush with the front of the drive; this indicates the cartridge is positioned properly.
4. To engage the cartridge, slide the Load/Unload Lever toward the right side of the drive until it stops and locks in place.
5. The drive begins to spin up the cartridge disk. Wait approximately 8 seconds for the cartridge to become ready for use. (During spin-up, the drive LED will flash amber. Once ready for use, the drive LED will be green.)

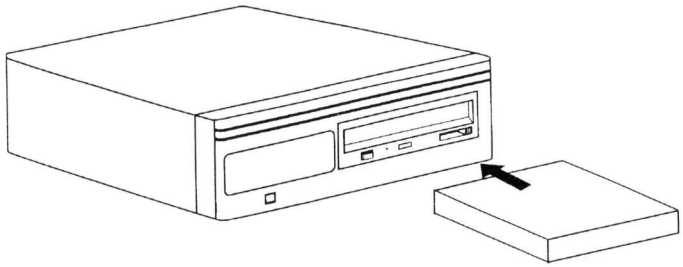

Figure 3-1. Inserting Removable Cartridge

Removing the cartridge

To remove the cartridge follow these instructions:

1. Insure that the drive is powered on by verifying that the drive LED is illuminated (green).
2. Exit out of all applications that use the cartridge. Close all open data files on the cartridge.

NOTE: If Windows is installed on a SyQuest drive, **always** exit Windows (ALT + F4 keys) to the DOS prompt.

3. If you are operating under Windows, double click your mouse on the SyQuest Utility icon and then double click your mouse on the "Unlock SyQuest Drives" icon to send a software "UNLOCK" command to the SQ270 or SQ105 External drive.

   or

   If you are operating under DOS, type "**Unlock**" and press the <Enter> key. Enter the drive letter of the SyQuest Cartridge to send a software "UNLOCK" command to the SQ270 or SQ105 External drive.

4. Press the Eject Button on the front panel of the drive (see Figure 3-2). The drive LED changes from green to flashing amber to off.
5. After approximately 10 seconds, the drive will spin down. When fully stopped, the Load/Unload Lever will release automatically.
6. To disengage the cartridge, slide the Load/Unload Lever towards the left of the drive until it locks in place. The cartridge will start to eject while sliding the lever to the left. Continue pushing the Load/Unload Lever to the left until it is fully seated (locks in place).
7. Gently pull the cartridge out from the drive opening.
8. Return the cartridge to its protective case for storage or transport.

NOTE: **If a cartridge is locked via software, depressing the Eject Button will have no effect until a software UNLOCK Command has been issued.**

Ejecting a Cartridge When Power is Unavailable

In the event of a power failure, the drive is equipped with an emergency eject system so that a cartridge can be ejected manually.

WARNING

Never use the emergency eject system when the power is on! Always wait at least 5 seconds after the drive powers down before doing the following:

To manually eject the cartridge, proceed as follows:

1. Unbend the end of a paper clip
2. Gently insert the pointed end of the paper clip into the emergency eject hole and push slightly (see Figure 3-2).
3. The Load/Unload Lever will disengage.
4. To disengage the cartridge, slide the Load/Unload Lever towards the left of the drive until it locks in place. The cartridge will start to eject while sliding the lever to the left. Continue pushing the Load/Unload Lever to the left until it is fully seated (locks in place).
5. Gently pull the cartridge out from the drive opening.
6. Return the cartridge to its protective case for storage and transport.

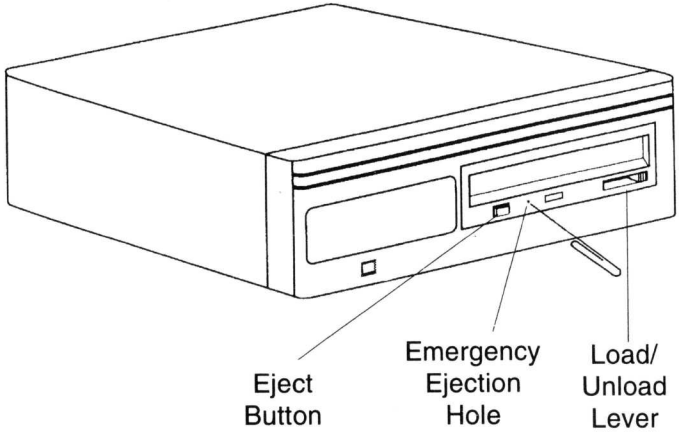

Figure 3-2. Emergency Cartridge Eject

Write Protecting the Cartridge

The removable disk cartridge has a write-protect cylinder on the lower right side of its plastic case. Refer to Figures 3-3 and 3-4.

To write-protect the cartridge, rotate the circular cylinder counterclockwise (using a small paper clip or penpoint) to the position marked "READ ONLY." Be careful not to scratch off the silver material on the write-protect cylinder.

Figure 3-3. Write Protect ON

Figure 3-4. Read/Write Enabled

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Appendix A

Specifications

Cartridge	SQ270	SQ105
Capacity Per Cartridge* (formatted)	268.5MB	109.9MB
Cartridge	SQ327	SQ310
Number of data disks	1	1

General

Interface	SCSI	SCSI
Data heads	2	2
Servo	Embedded	Embedded
Track density	3200 TPI	2100 TPI
Flux density - max	60,000 BPI	41,300 BPI
Recording method	RLL 1,7 code	RLL 1,7 code
Bytes per block	512	512

Performance

Seek time		
Track to track	3 msec	3 msec
Average access (typical)	13.5 msec	14.5 msec
Maximum	26 msec	30 msec
Data Transfer Rate		
Burst	4.0 Megabytes/second	4.0 Megabytes/second
Sustained	min 1.4 Megabytes/second max 2.4 Megabytes/second	min .94 Megabytes/second max 1.4 Megabytes/second
Rotational speed	3600 RPM	3600 RPM
Average latency	8.3 msec	8.3 msec
Start time (spin up)	8 sec max	8 sec max
Stop time (spin down)	10 sec max	10 sec max
Start/stop cycles	20,000	20,000
Interleave	1:1	1:1
Buffer size	128K	64K

Reliability and Maintenance

Non-recoverable data errors	1 in 10^{12}	1 in 10^{12}
MTBF	100,000 hours	100,000 hours
Preventative maintenance	None	None
Component design life	5 years	5 years
Cartridge insertions (min)	20,000	20,000

*Capacity is calculated as the total available data tracks times available sectors times 512 bytes/sector (million bytes).

Physical Characteristics

Drive
- Height ..... 1.00 in. (25.4 mm)
- Width ..... 4.00 in. (101.6 mm)
- Length ..... 5.91 in. (150 mm)
- Weight ..... 15 oz. (425 gm)

Cartridge
- Height ..... .39 in. (9.9 mm)
- Width ..... 3.83 in. (97.3 mm)
- Length ..... 3.85 in. (98.6 mm)
- Weight ..... 2.9 oz. (82.2 gm)

Enclosure
- Height ..... 2.13 in. (54.1 mm)
- Width ..... 7.13 in. (181.1 mm)
- Length ..... 8.08 in. (205.2 mm)
- Weight (with drive) ..... 3.8 lbs. (1.73 kg)

Power Requirements

SCSI	Current (A)	Typical Watts
@ 5VDC		
Standby	0.2	1.0
Start-up	1.2	6.0
Idle	0.3	1.5
Read/write	0.7	3.5

Environmental Characteristics

Temperature
- Operating ..... 5°C to 55°C
- Non-operating ..... -40°C to 70°C
- Thermal humidity ..... 20°C/hour

Relative humidity
- Operating ..... 8% to 90% non condensing
- Non-operating ..... 5% to 90% non condensing
- Maximum wet bulb ..... 32°C (89°F)

Altitude
- Operating ..... -1000 to 10,000 feet
- Non-operating ..... -1000 to 40,000 feet

Acoustical noise
- Operating ..... 45 dBa maximum

Shock (½ sine wave pulse)
- Operating ..... 3G's
- Non-operating ..... 80G's maximum

Vibration
- Operating ..... 5-10 Hz 0.030" (peak to peak)
  10-300 Hz 0.5G's (peak to peak)
- Non-operating ..... 2-10 Hz 0.040" (peak to peak)
  10-500 Hz 4.0G's (peak to peak)

without non-recoverable data error rate degradation

Appendix B

OPERATION WITH NON-SYQUEST SOFTWARE/HBAs

SyQuest software was designed to support removability and cartridge interchange. SyQuest **strongly** recommends that you use your SQ270 or SQ105 External **only** with SyQuest software. This software has been fully tested and certified for SyQuest Host Bus Adapters (SyQuest 16-Bit High Performance HBA, Enhanced Performance HBA, Standard Performance HBA, and Enhanced Parallel Port Adapter Kit) and SyQuest recommended HBAs (see the readme file on SCSI Utility Diskette 1 for a list of SyQuest recommended HBAs). Optimal performance and functionality are achieved by using SyQuest software and compatible HBAs.

Other SCSI adapters and software drivers provide varying levels of removability and interchange. SyQuest cartridge removability and interchange generally can be obtained using an ASPI Manager supplied by the HBA vendor and the SyQuest provided device driver, SQDRIVER.SYS (See Appendix C of the SyQuest SCSI Software manual).

If you do not have SyQuest software and require to **temporarily** use your SQ270 or SQ105 External as your boot drive, do the following:

1. Enable the BIOS on your SCSI Host Bus Adapter and select a BIOS address that is not in conflict with other adapters in your system.

2. Under your computer's CMOS Setup (or equivalent hardware setup program), set the Hardfile Device C: type to "NOT INSTALLED."

3. After booting your PC from a bootable diskette (be sure that the SCSI adapter is the only active disk controller), use DOS **FDISK** to partition the SQ327 (or SQ310) cartridge and **FORMAT** to format the cartridge (use **FORMAT /S** utility to make the drive bootable).

Warning:

> ***When operated using standard DOS software, data corruption/ data loss may occur whenever a cartridge is removed while the PC is powered on. Data corruption/loss will occur if a cartridge is removed while using caching software (e.g. SMARTDRV.SYS) with standard DOS software. SYQUEST DOES NOT RECOMMEND OPERATION OF YOUR SQ270 OR SQ105 EXTERNAL IN THIS MODE. Please call SyQuest Technical Support to obtain and install SyQuest software as soon as possible. ALWAYS USE SYQUEST SOFTWARE AND COMPATIBLE SCSI HOST BUS ADAPTERS!***

Appendix C

Installing Optional Vertical Mounting Feet

Your SQ270 or SQ105 External may be operated either vertically or horizontally. Should you desire to operate the SQ270 (or105) External vertically, four "feet" are provided that prevent the SQ270 (or105) External from sliding during vertical operation.

To install the feet: (1) Choose the vertical orientation of the SQ270 (or105) External. (SyQuest Logo at the bottom or the top). (2) Apply the four feet to the bottom side of the enclosure.

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